

Figure B-1: Schematic Diagram of an Interceptor Swale

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INTERCEPTOR  
SWALE

CONSTRUCTION STANDARDS AND DETAILS



PC-1

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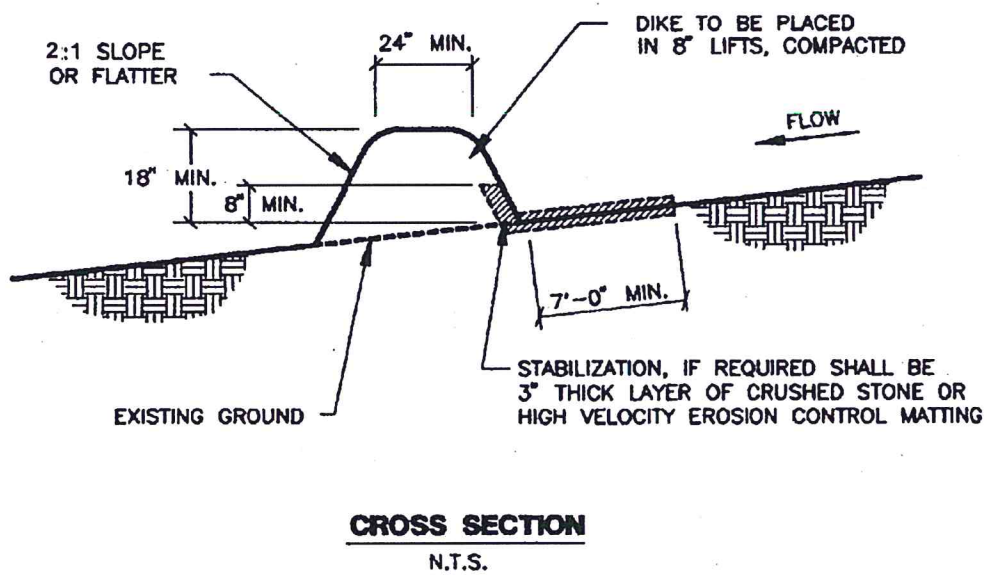
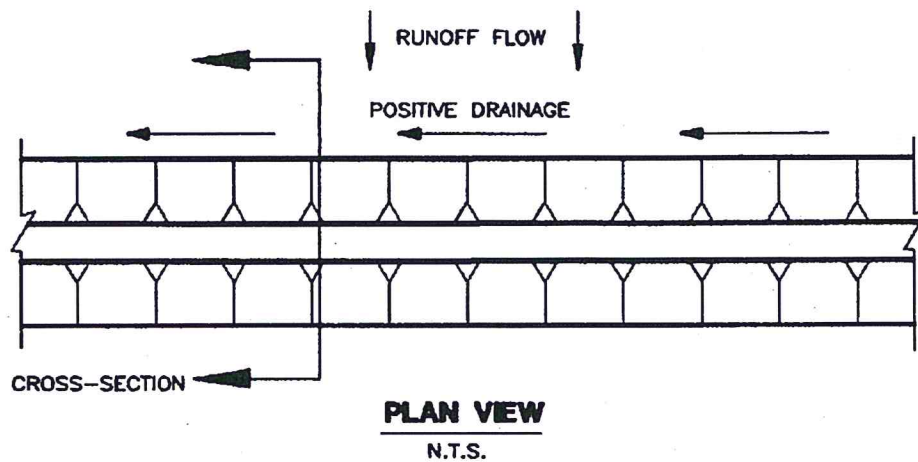


Figure B-2: Schematic of a Diversion Dike

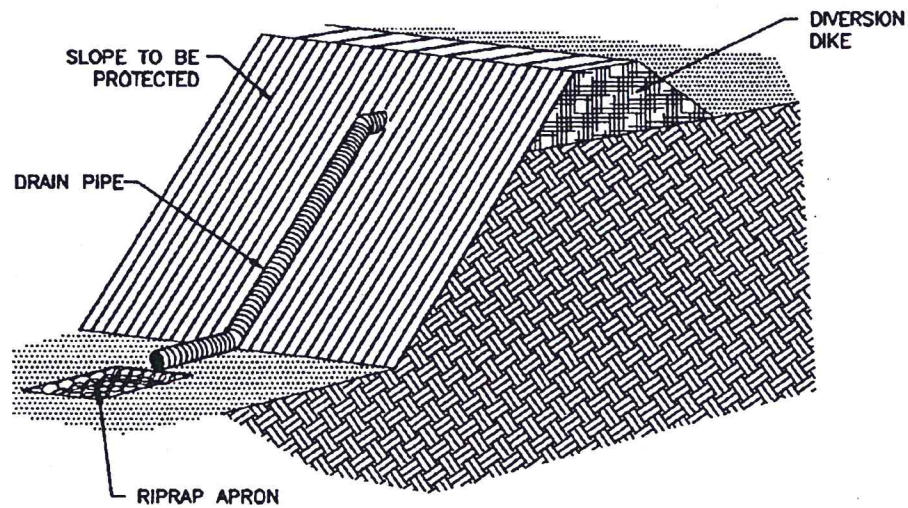
CITY OF KILLEEN  
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DIVERSION DIKE  
DETAIL

CONSTRUCTION STANDARDS AND DETAILS

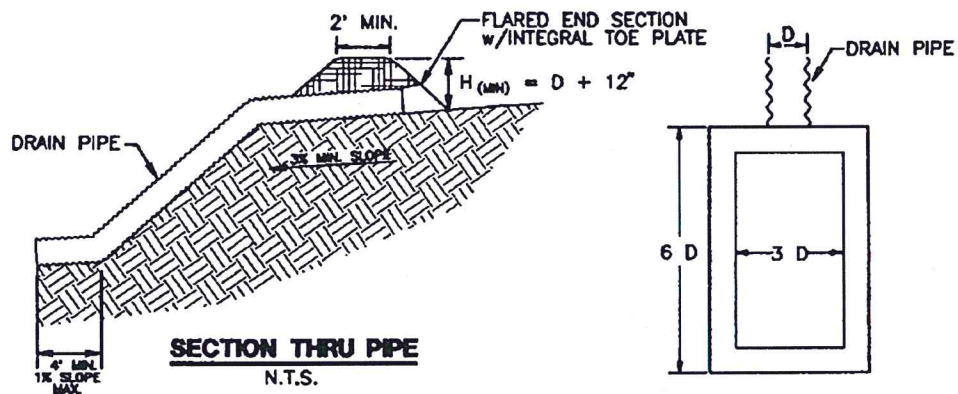


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**ISOMETRIC PLAN VIEW**

N.T.S.



**SECTION THRU PIPE**

N.T.S.

**RIPRAP APRON PLAN VIEW**

N.T.S.

RIPRAP SHALL CONSIST OF 50 TO 150 POUND STONES PLACED IN A LAYER OF NOT LESS THAN 12 INCHES. THE DEPTH OF THE APRON SHALL EQUAL THE PIPE DIAMETER BUT IN NO CASE SHALL IT BE LESS THAN 12 INCHES.

Figure B-3: Schematic Diagram of a Slope Drain

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**PIPE SLOPE DRAIN  
DETAIL**

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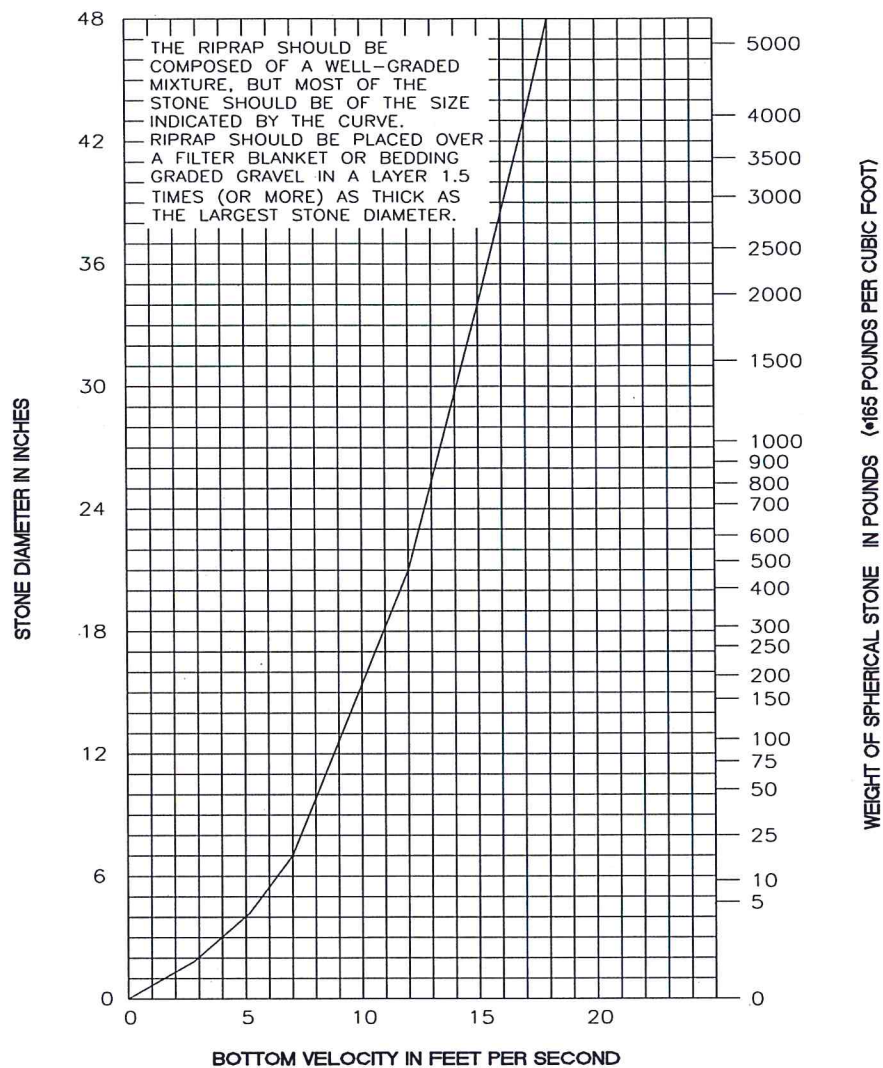


Figure B-4: Rock Riprap Size Selection

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ROCK RIPRAP  
SIZE SELECTION

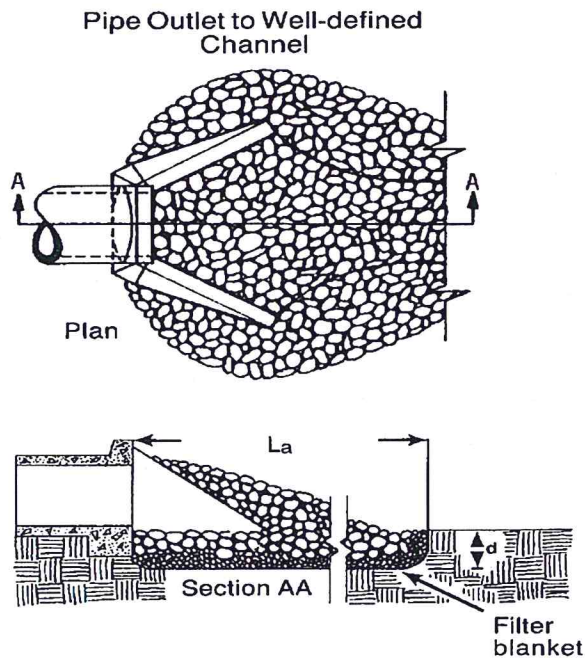
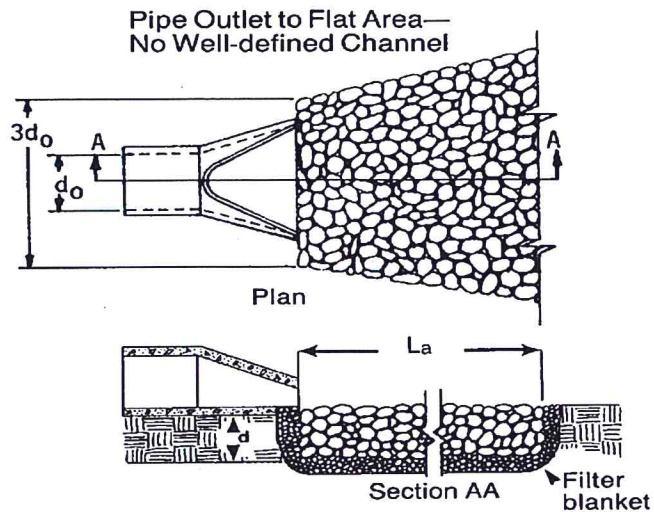
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#### Notes

1.  $L_a$  is the length of the riprap apron.
2.  $d = 1.5$  times the maximum stone diameter but not less than 6".
3. In a well-defined channel extend the apron up the channel banks to an elevation of 6" above the maximum tailwater depth or to the top of the bank, whichever is less.
4. A filter blanket or filter fabric should be installed between the riprap and soil foundation.

Figure B-5: Schematic Riprap Outlet Design

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## RIPRAP OUTLET DESIGN

CONSTRUCTION STANDARDS AND DETAILS



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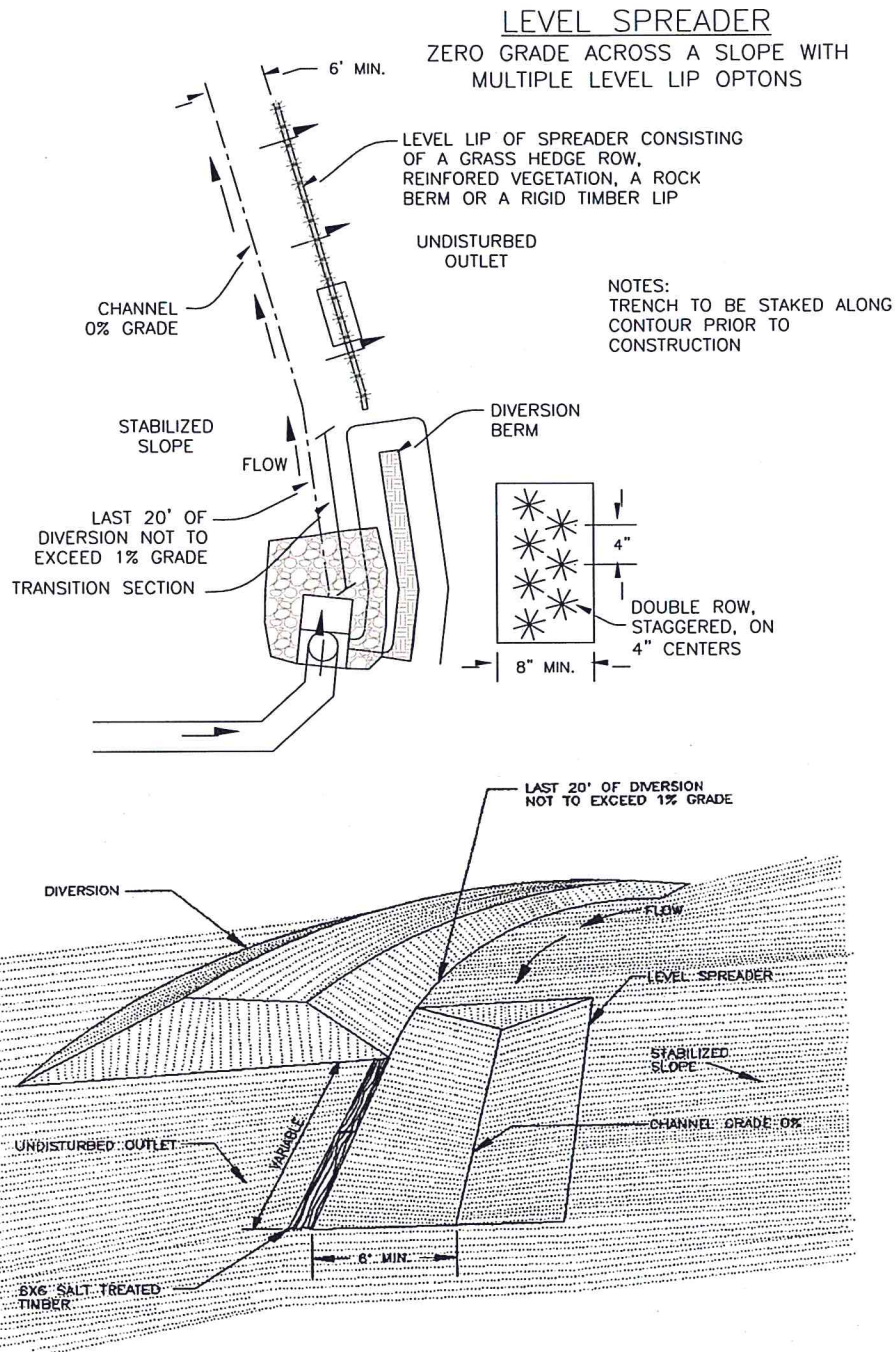


Figure B-6: Level Spreader Schematic and Perspective

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**LEVEL SPREADER  
SCHEMATIC AND PERSPECTIVE**

CONSTRUCTION STANDARDS AND DETAILS



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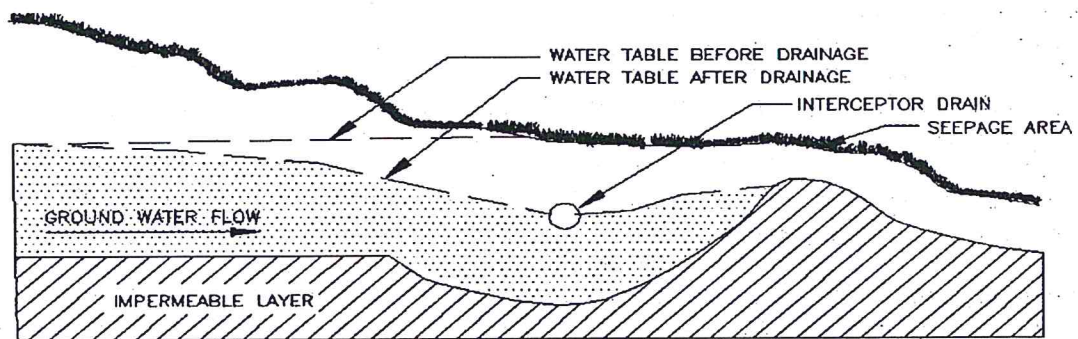


Figure B-8: Effect of Subsurface Drain

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## EFFECT OF SUBSURFACE DRAIN

CONSTRUCTION STANDARDS AND DETAILS



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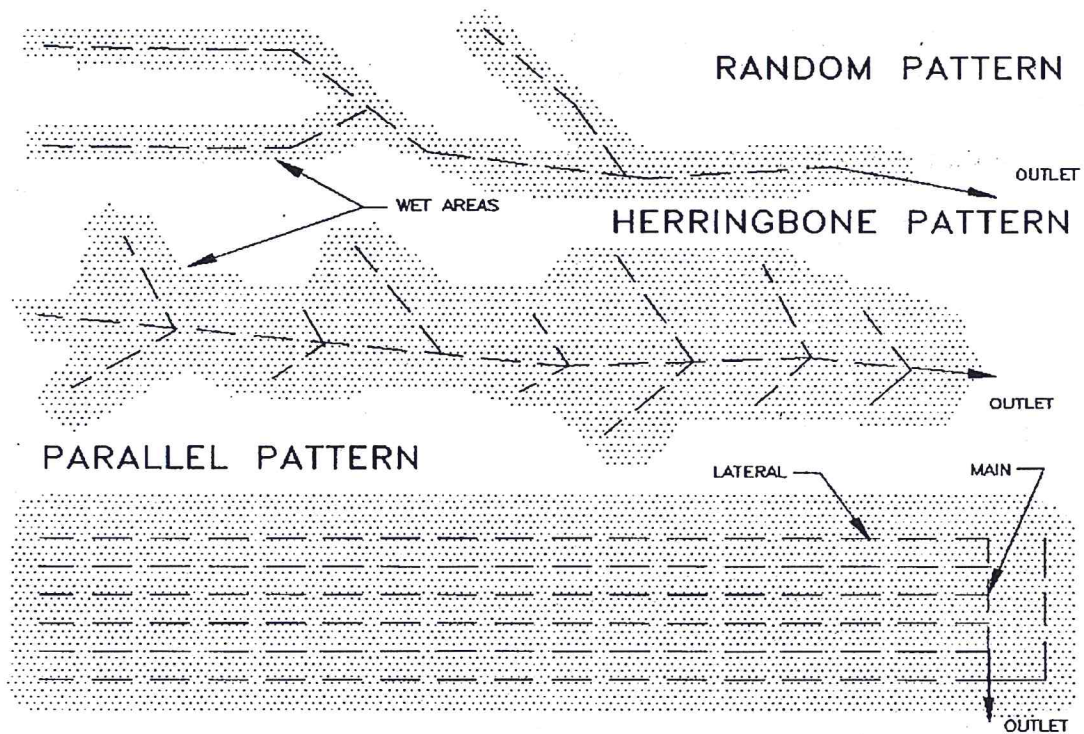


Figure B-9: Subsurface Drainage Patterns

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**SUBSURFACE  
DRAINAGE PATTERNS**

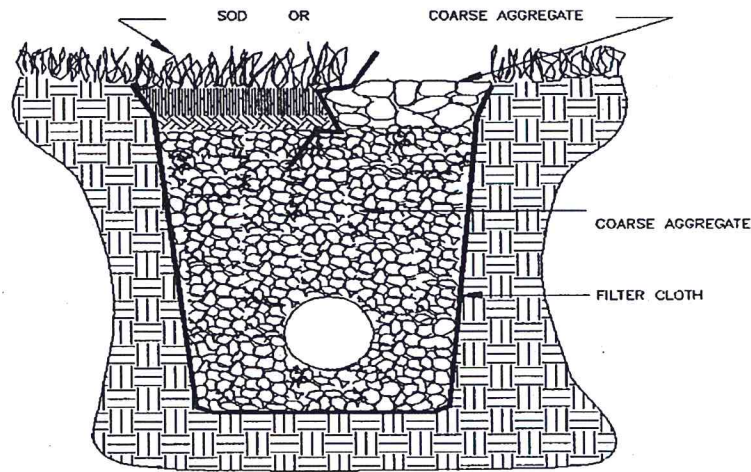
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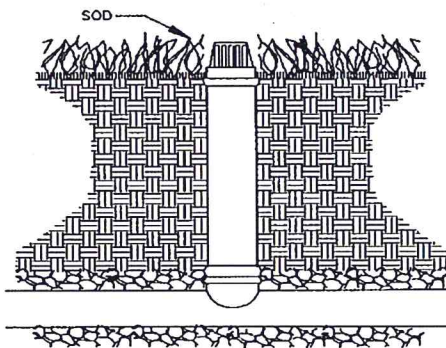
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NATURAL INLET



GRATED INLET

Figure B-10: Surface Inlets for Subsurface Drains Schematic

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SURFACE INLETS FOR  
SUBSURFACE DRAINS SCHEMATIC

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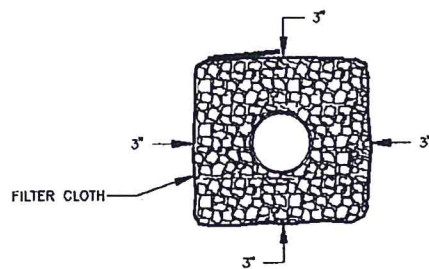


Figure B-11: Subsurface Drain Envelope Schematic

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**SUBSURFACE DRAIN  
ENVELOPE SCHEMATIC**

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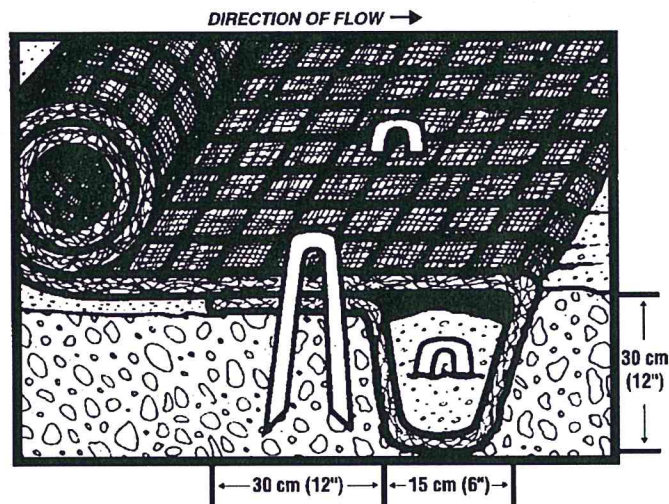


Figure B-12: Typical Initial Anchor Trench for Blankets and Mats

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**TYPICAL INITIAL ANCHOR TRENCH  
FOR BLANKETS AND MATS**

CONSTRUCTION STANDARDS AND DETAILS



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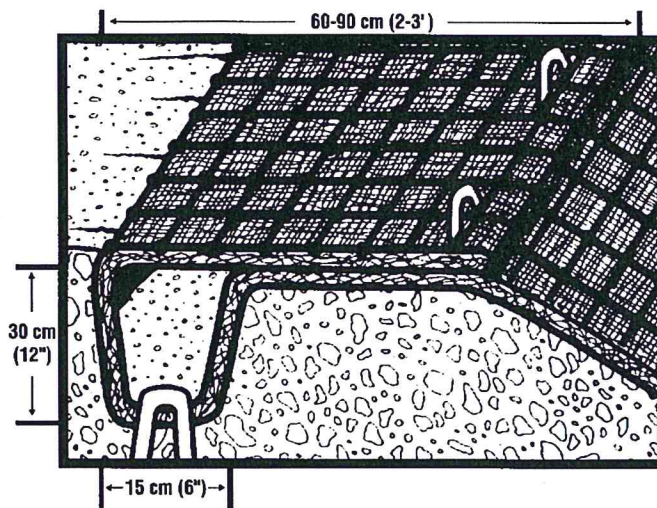


Figure B-13: Typical Terminal Anchor Trench for Blankets and Mats

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TYPICAL TERMINAL ANCHOR TRENCH  
FOR BLANKETS AND MATS

CONSTRUCTION STANDARDS AND DETAILS



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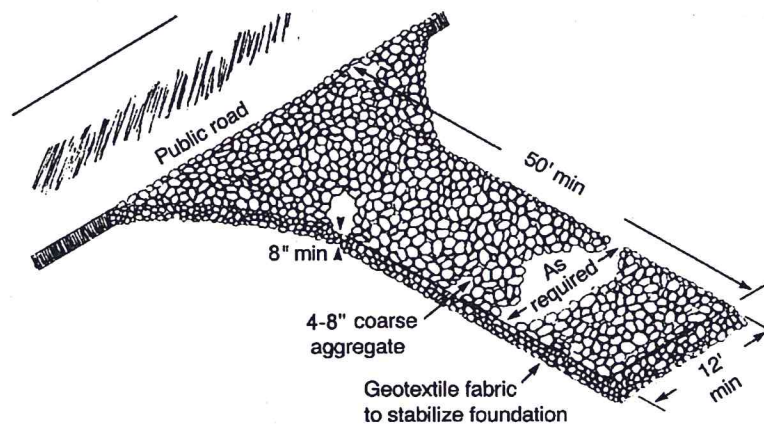


Figure B-14: Schematic of Temporary Construction Entrance/Exit

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**TEMPORARY CONSTRUCTION  
ENTRANCE/EXIT**

CONSTRUCTION STANDARDS AND DETAILS



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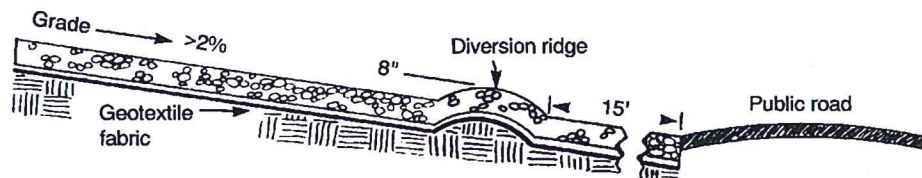


Figure B-15: Cross-section of a Construction Entrance/Exit

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**CROSS-SECTION OF A  
CONSTRUCTION ENTRANCE/EXIT**

CONSTRUCTION STANDARDS AND DETAILS



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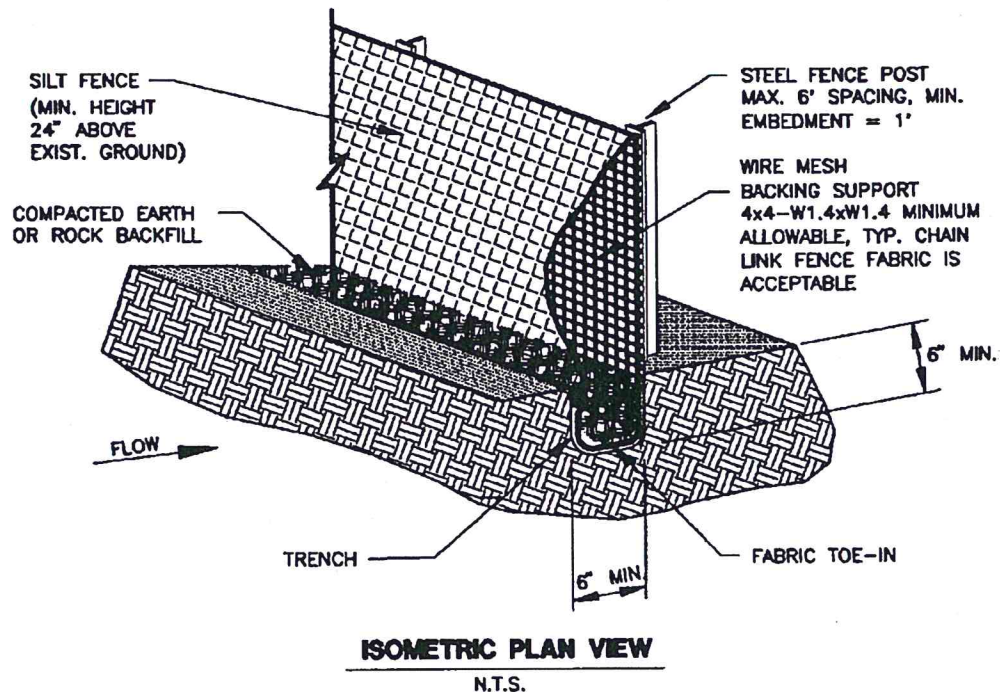


Figure B-16: Schematic of a Silt Fence Installation

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# SILT FENCE INSTALLATION

CONSTRUCTION STANDARDS AND DETAILS



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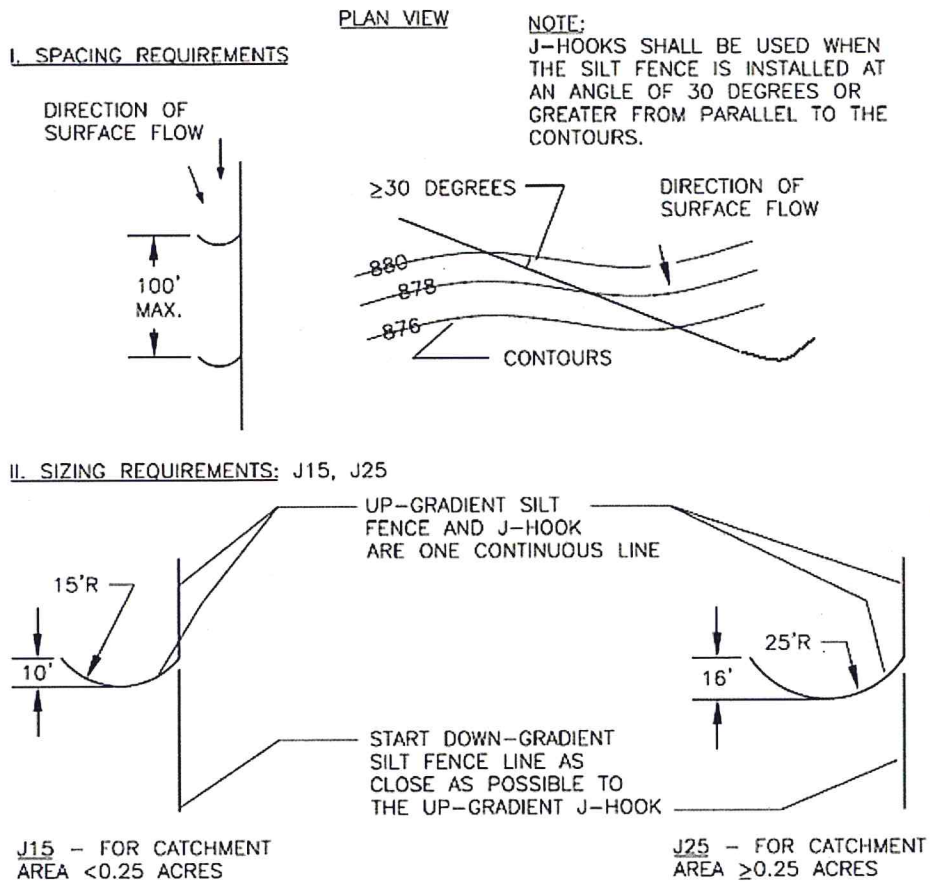


Figure B-17: Schematic J-hook Placement

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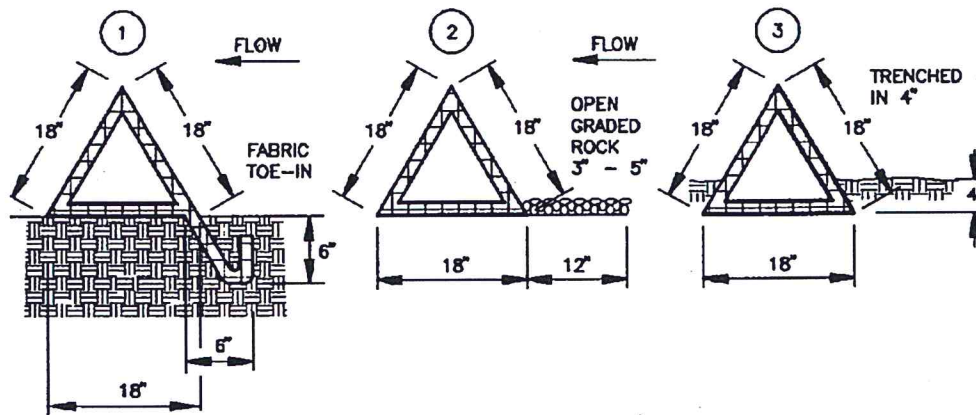
**J-HOOK  
PLACEMENT**

CONSTRUCTION STANDARDS AND DETAILS



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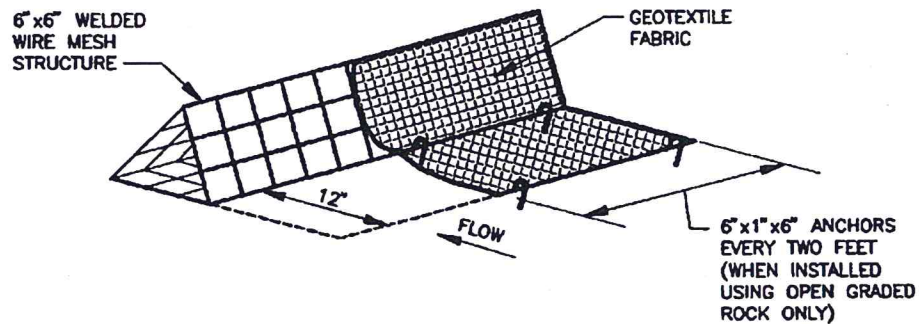




### **CROSS SECTION OF INSTALLATION OPTIONS**

N.T.S.

1. TOE-IN 6" MIN
2. WEIGHTED W/ 3" - 5" OPEN GRADED ROCK
3. TRENCHED IN 4"



### **ISOMETRIC PLAN VIEW**

N.T.S.

Figure B-18: Schematic of a Triangular Filter Dike

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**TRIANGULAR  
FILTER DIKE**

CONSTRUCTION STANDARDS AND DETAILS



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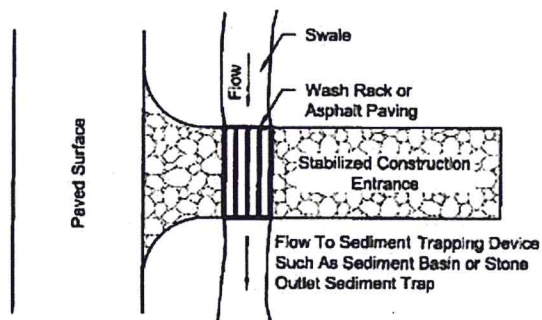


Figure B-19: Schematic Tire Wash Facility

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**TIRE WASH  
FACILITY**

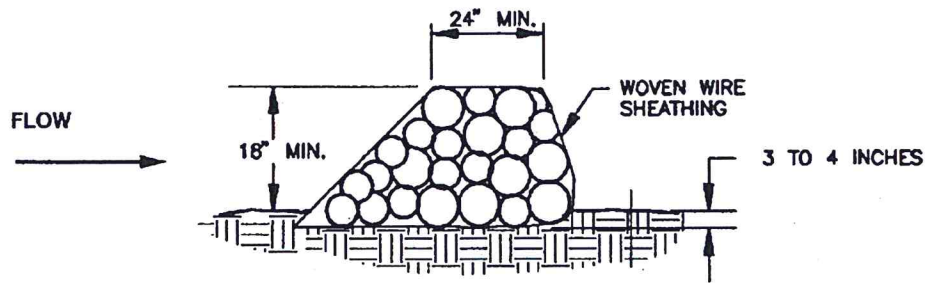
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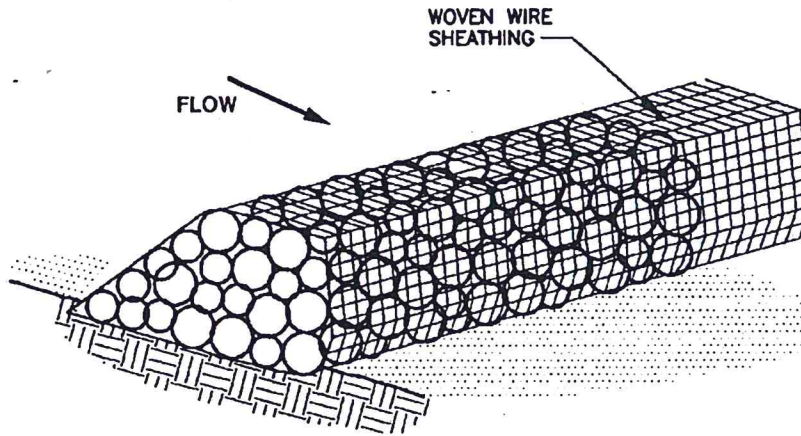
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### **CROSS SECTION**

N.T.S.



### **ISOMETRIC PLAN VIEW**

N.T.S.

Figure B-20: Schematic Diagram of a Rock Berm

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**ROCK BERM  
DETAIL**

CONSTRUCTION STANDARDS AND DETAILS



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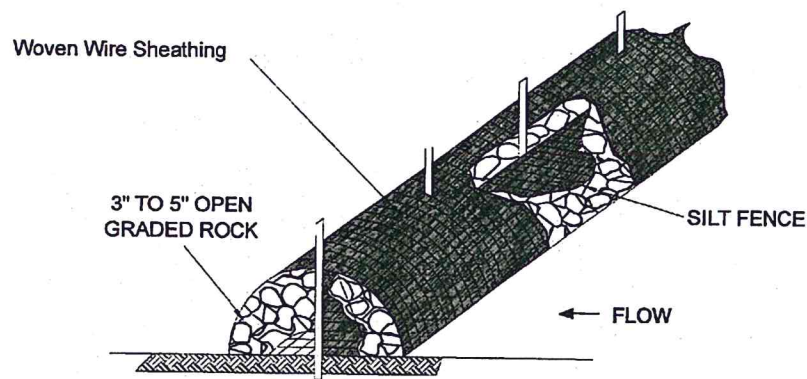
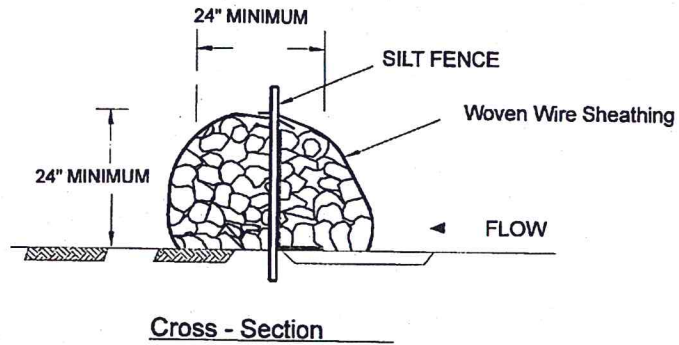


Figure B-21: Schematic Diagram of High Service Rock Berm

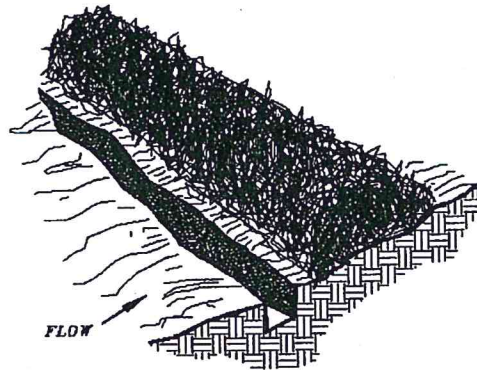
**CITY OF KILLEEN**  
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**HIGH SERVICE  
ROCK BERM**

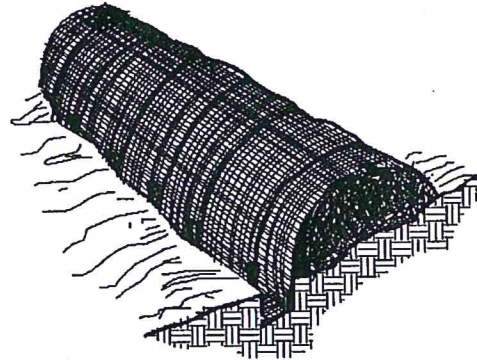
CONSTRUCTION STANDARDS AND DETAILS



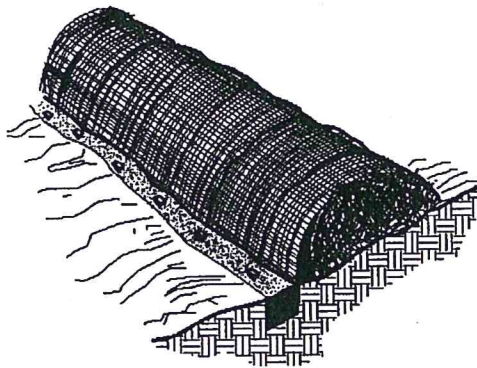
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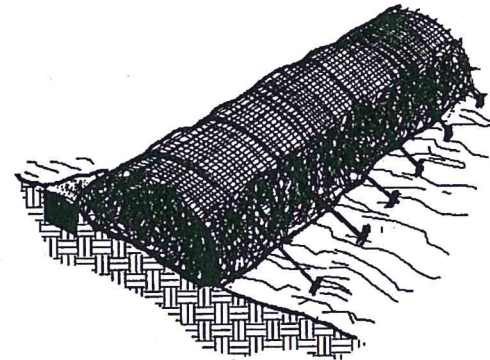
1. EXCAVATE A 4"X 4" TRENCH ALONG THE UPHILL EDGE OF THE BRUSH BARRIER.



2. DRAPE FILTER FABRIC OVER THE BRUSH BARRIER AND INTO THE TRENCH. FABRIC SHOULD BE SECURED IN THE TRENCH WITH STAKES SET APPROXIMATELY 36" O.C.



3. BACKFILL AND COMPACT THE EXCAVATED SOIL.



4. SET STAKES ALONG THE DOWN-HILL EDGE OF THE BRUSH BARRIER, AND ANCHOR BY TYING TWINE FROM THE FABRIC TO THE STAKES.

Figure B-22: Schematic Diagram of a Brush Berm

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## BRUSH BERM DETAIL

CONSTRUCTION STANDARDS AND DETAILS

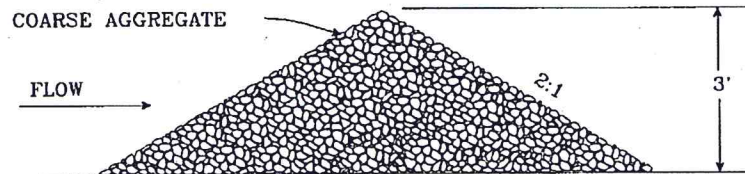
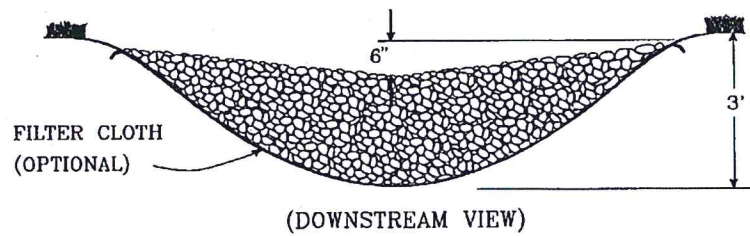


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2 ACRES OR LESS OF DRAINAGE AREA:



2-10 ACRES OF DRAINAGE AREA:

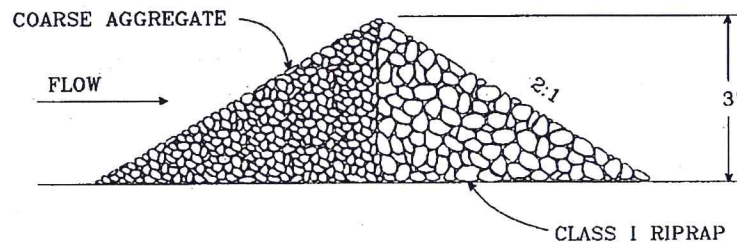
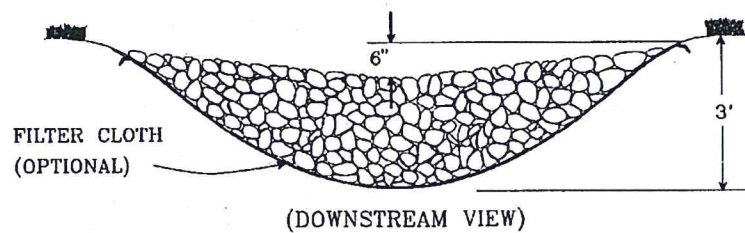


Figure B-23: Schematic Diagram of a Rock Check Dam

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ROCK CHECK DAM  
DETAIL

CONSTRUCTION STANDARDS AND DETAILS



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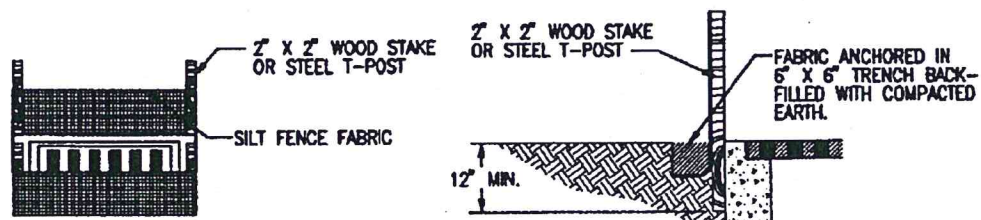


Figure B-24: Filter Fabric Inlet Protection

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**FILTER FABRIC  
INLET PROTECTION**

CONSTRUCTION STANDARDS AND DETAILS



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